



A Touchstone Energy Cooperative 

RECEIVED

MAR 20 2013

PUBLIC SERVICE
COMMISSION

March 20, 2013

Jeff DeRouen
Executive Director
Public Service Commission
P.O. Box 615
Frankfort, KY 40602-0615

Dear Mr. DeRouen:

Enclosed is Fleming Mason Energy's Reliability Report for the calendar year of 2012 requested by the Public Service Commission's Order dated October 26, 2007 for Case No. 2006-00494.

If you have any questions or comments, please contact the office at, 1-800-464-3144 or by email at bhunt@fme.coop.

Sincerely,

A handwritten signature in black ink that reads "Brandon Hunt". The signature is written in a cursive, flowing style.

Brandon Hunt
System Engineer

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	1.1	<u>Fleming Mason Energy</u>
REPORT PREPARED BY	1.2	<u>Brandon Hunt</u>
E-MAIL ADDRESS OF PREPARER	1.3	<u>bhunt@fme.coop</u>
PHONE NUMBER OF PREPARER	1.4	<u>606-845-2661</u>

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	<u>2012</u>
-------------------------	-----	-------------

SECTION 3: MAJOR EVENT DAYS

T_{MED}	3.1	<u>11.7</u>
FIRST DATE USED TO DETERMINE T_{MED}	3.2	<u>1/1/2009</u>
LAST DATE USED TO DETERMINE T_{MED}	3.3	<u>12/31/2012</u>
NUMBER OF MED IN REPORT YEAR	3.4	<u>4</u>

NOTE: Per IEEE 1366 T_{MED} should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

SECTION 4: SYSTEM RELIABILITY RESULTS

Excluding MED

SAIDI	4.1	<u>133.2</u>
SAIFI	4.2	<u>0.92</u>
CAIDI	4.3	<u>144.4</u>

Including MED (Optional)

SAIDI	4.4	<u>335.7</u>
SAIFI	4.5	<u>1.44</u>
CAIDI	4.6	<u>233.1</u>

Notes:

- 1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.
 - 2) Reports are due on the first business day of April of each year
 - 3) Reports cover the calendar year ending in the December before the reports are due.
 - 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI, and T_{MED}
-

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: OUTAGE CAUSE CATEGORIES

Excluding MED

CAUSE CODE DESCRIPTION	SAIDI VALUE	CAUSE CODE DESCRIPTION	SAIFI VALUE
Wind, not trees	5.1.1 38.97	Lightning	5.2.1 0.19
Lightning	5.1.2 21.74	Wind, not trees	5.2.2 0.18
Motor vehicle	5.1.3 12.60	Cause unknown	5.2.3 0.08
Decay/age of mat/equip	5.1.4 12.15	Tree failure	5.2.4 0.08
Weather, other	5.1.5 9.87	Small animal/bird	5.2.5 0.08
Tree failure	5.1.6 7.61	Mat or equip failure	5.2.6 0.05
Cause unknown	5.1.7 5.78	Decay/age of mat/equi	5.2.7 0.05
Tree growth	5.1.8 5.71	Motor vehicle	5.2.8 0.05
Mat or equip failure	5.1.9 5.71	Conductor sag	5.2.9 0.05
Small animal/bird	5.1.10 5.44	Weather, other	5.2.10 0.04

SECTION 6: WORST PERFORMING CIRCUITS

CIRCUIT IDENTIFIER	SAIDI VALUE	MAJOR OUTAGE CATEGORY
Charter 144 (Holly)	6.1.1 11.04	WIND
Maysville 134 (Moransburg)	6.1.2 10.09	DECAY/AGE OF MATERIAL/EQUIPMENT
Charter 134 (Vanceburg)	6.1.3 7.72	WIND
Charters 124 (Herron Hill)	6.1.4 5.64	MOTOR VEHICLE
Sharkey 124 (801 / Farmers)	6.1.5 4.26	WEATHER
Oak Ridge 144 (Mud Lick)	6.1.6 4.65	LIGHTNING
Peasticks 114 (Fordge Mill)	6.1.7 4.4	MOTOR VEHICLE
Hillsboro 104 (Grange City)	6.1.8 2.06	LIGHTNING
Hillsboro 124 (Sherburne)	6.1.9 1.75	LIGHTNING
Peasticks 134 (Sharpsburg)	6.1.10 1.64	CONDUCTOR SAG

CIRCUIT IDENTIFIER	SAIFI VALUE	MAJOR OUTAGE CATEGORY
Charters 134 (Vanceburg)	6.2.1 0.06	SMALL ANIMAL/BIRD
Charters 124 (Herron Hill)	6.2.2 0.03	LARGE ANIMAL
Charters 144 (Holly)	6.2.3 0.02	WIND
Maysville 134 (Moransburg)	6.2.4 0.03	DECAY/AGE OF MATERIAL/EQUIPMENT
Hillsboro 104 (Grange City)	6.2.5 0.03	LIGHTNING
Oak Ridge 144 (Mud Lick)	6.2.6 0.03	LIGHTNING
Peasticks 134 (Sharpsburg)	6.2.7 0.04	CONDUCTOR SAG
Sharkey 134 (Sharkey)	6.2.8 0.04	TREE FAILURE
Sharkey 124 (801 / Farmers)	6.2.9 0.03	WIND
Hillsboro 134 (Poplar Plains)	6.2.10 0.02	MATERIAL OR EQUIPMENT FAILURE

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

Additional pages may be attached as necessary

SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

In 2012 the following circuits were sprayed.

Hillsboro (Sherburne, Ringos, Poplar Plains, Grange City)
Maysville (Moransburg, Federal Mogal)
Peasticks (Forge Mill, Moores Ferry, Owingsville/Sharpsburg, Hart Pike)
Charters (Salt Lick, Vanceburg)

In 2012 the following circuits were cleared.

Charters (Herron Hill)
Sharkey (801/Farmers, Sharkey)
Oak Ridge (Burtonville, Petersville, Mudlick)
Pine Hills (Interchange, Pine Hills, Bluestone)

2013 Spray Cycle

Cranston, Muses Mill, Hillsboro, Sherburne, Ringos, Poplar Plain, Grange City

2013 Cut Cycle

Tilton, Hospital, Helena, Underbuild, Bluebank, Herron Hill, Holly, Plumville, Farmers, Sharkey,

SECTION 8: UTILITY COMMENTS

Circuit Descriptions:

Charters 144 (Holly) - A long ckt that travels through rough terrain. Wind took out several trees close to creek banks.

Maysville 134 (Moransburg) - This circuit had a couple large outages due to equipment failing.

Charters 134 (Vanceburg) - Another long ckt. Heavy vegetation in this area makes it acceptable to trees during windy conditions.

Charters 124 (Herron Hill) - A couple large farm equipment accidents was the major cause on this circuit.

Sharkey 124 (801/Farmers) - A combination of storms and winter weather raised the outage numbers of this particular circuit.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	1.1	<u>Fleming Mason Energy</u>
REPORT PREPARED BY	1.2	<u>Brandon Hunt</u>
E-MAIL ADDRESS OF PREPARER	1.3	<u>bhunt@fme.coop</u>
PHONE NUMBER OF PREPARER	1.4	<u>606-845-2661</u>

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	<u>2012</u>
-------------------------	-----	-------------

SECTION 3: MAJOR EVENT DAYS

	T_{MED}	3.1	<u>11.7</u>
FIRST DATE USED TO DETERMINE T_{MED}		3.2	<u>1/1/2009</u>
LAST DATE USED TO DETERMINE T_{MED}		3.3	<u>12/31/2012</u>
NUMBER OF MED IN REPORT YEAR		3.4	<u>4</u>

NOTE: Per IEEE 1366 T_{MED} should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

SECTION 4: SYSTEM RELIABILITY RESULTS

Excluding MED

SAIDI	4.1	<u>133.2</u>
SAIFI	4.2	<u>0.92</u>
CAIDI	4.3	<u>144.4</u>

Including MED (Optional)

SAIDI	4.4	<u>335.7</u>
SAIFI	4.5	<u>1.44</u>
CAIDI	4.6	<u>233.1</u>

Notes:

- 1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.
 - 2) Reports are due on the first business day of April of each year
 - 3) Reports cover the calendar year ending in the December before the reports are due.
 - 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI, and T_{MED}
-

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: OUTAGE CAUSE CATEGORIES

Excluding MED

CAUSE CODE DESCRIPTION	SAIDI VALUE	CAUSE CODE DESCRIPTION	SAIFI VALUE
Wind, not trees 5.1.1	38.97	Lightning 5.2.1	0.19
Lightning 5.1.2	21.74	Wind, not trees 5.2.2	0.18
Motor vehicle 5.1.3	12.60	Cause unknown 5.2.3	0.08
Decay/age of mat/equip 5.1.4	12.15	Tree failure 5.2.4	0.08
Weather, other 5.1.5	9.87	Small animal/bird 5.2.5	0.08
Tree failure 5.1.6	7.61	Mat or equip failure 5.2.6	0.05
Cause unknown 5.1.7	5.78	Decay/age of mat/equip 5.2.7	0.05
Tree growth 5.1.8	5.71	Motor vehicle 5.2.8	0.05
Mat or equip failure 5.1.9	5.71	Conductor sag 5.2.9	0.05
Small animal/bird 5.1.10	5.44	Weather, other 5.2.10	0.04

SECTION 6: WORST PERFORMING CIRCUITS

CIRCUIT IDENTIFIER	SAIDI VALUE	MAJOR OUTAGE CATEGORY
Charter 144 (Holly) 6.1.1	11.04	WIND
Maysville 134 (Moransburg) 6.1.2	10.09	DECAY/AGE OF MATERIAL/EQUIPMENT
Charter 134 (Vanceburg) 6.1.3	7.72	WIND
Charters 124 (Herron Hill) 6.1.4	5.64	MOTOR VEHICLE
Sharkey 124 (801 / Farmers) 6.1.5	4.26	WEATHER
Oak Ridge 144 (Mud Lick) 6.1.6	4.65	LIGHTNING
Peasticks 114 (Fordge Mill) 6.1.7	4.4	MOTOR VEHICLE
Hillsboro 104 (Grange City) 6.1.8	2.06	LIGHTNING
Hillsboro 124 (Sherburne) 6.1.9	1.75	LIGHTNING
Peasticks 134 (Sharpsburg) 6.1.10	1.64	CONDUCTOR SAG

CIRCUIT IDENTIFIER	SAIFI VALUE	MAJOR OUTAGE CATEGORY
Charters 134 (Vanceburg) 6.2.1	0.06	SMALL ANIMAL/BIRD
Charters 124 (Herron Hill) 6.2.2	0.03	LARGE ANIMAL
Charters 144 (Holly) 6.2.3	0.02	WIND
Maysville 134 (Moransburg) 6.2.4	0.03	DECAY/AGE OF MATERIAL/EQUIPMENT
Hillsboro 104 (Grange City) 6.2.5	0.03	LIGHTNING
Oak Ridge 144 (Mud Lick) 6.2.6	0.03	LIGHTNING
Peasticks 134 (Sharpsburg) 6.2.7	0.04	CONDUCTOR SAG
Sharkey 134 (Sharkey) 6.2.8	0.04	TREE FAILURE
Sharkey 124 (801 / Farmers) 6.2.9	0.03	WIND
Hillsboro 134 (Poplar Plains) 6.2.10	0.02	MATERIAL OR EQUIPMENT FAILURE

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

Additional pages may be attached as necessary

SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

In 2012 the following circuits were sprayed.

Hillsboro (Sherburne, Ringos, Poplar Plains, Grange City)
Maysville (Moransburg, Federal Mogal)
Peasticks (Forge Mill, Moores Ferry, Owingsville/Sharpsburg, Hart Pike)
Charters (Salt Lick, Vanceburg)

In 2012 the following circuits were cleared.

Charters (Herron Hill)
Sharkey (801/Farmers, Sharkey)
Oak Ridge (Burtonville, Petersville, Mudlick)
Pine Hills (Interchange, Pine Hills, Bluestone)

2013 Spray Cycle

Cranston, Muses Mill, Hillsboro, Sherburne, Ringos, Poplar Plain, Grange City

2013 Cut Cycle

Tilton, Hospital, Helena, Underbuild, Bluebank, Herron Hill, Holly, Plumville, Farmers, Sharkey,

SECTION 8: UTILITY COMMENTS

Circuit Descriptions:

Charters 144 (Holly) - A long ckt that travels through rough terrain. Wind took out several trees close to creek banks.

Maysville 134 (Moransburg) - This circuit had a couple large outages due to equipment failing.

Charters 134 (Vanceburg) - Another long ckt. Heavy vegetation in this area makes it acceptable to trees during windy conditions.

Charters 124 (Herron Hill) - A couple large farm equipment accidents was the major cause on this circuit.

Sharkey 124 (801/Farmers) - A combination of storms and winter weather raised the outage numbers of this particular circuit.

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	1.1	<u>Fleming Mason Energy</u>
REPORT PREPARED BY	1.2	<u>Brandon Hunt</u>
E-MAIL ADDRESS OF PREPARER	1.3	<u>bhunt@fme.coop</u>
PHONE NUMBER OF PREPARER	1.4	<u>606-845-2661</u>

SECTION 2: REPORT YEAR

CALENDAR YEAR OF REPORT	2.1	<u>2012</u>
-------------------------	-----	-------------

SECTION 3: MAJOR EVENT DAYS

T_{MED}	3.1	<u>11.7</u>
FIRST DATE USED TO DETERMINE T_{MED}	3.2	<u>1/1/2009</u>
LAST DATE USED TO DETERMINE T_{MED}	3.3	<u>12/31/2012</u>
NUMBER OF MED IN REPORT YEAR	3.4	<u>4</u>

NOTE: Per IEEE 1366 T_{MED} should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

SECTION 4: SYSTEM RELIABILITY RESULTS

Excluding MED

SAIDI	4.1	<u>133.2</u>
SAIFI	4.2	<u>0.92</u>
CAIDI	4.3	<u>144.4</u>

Including MED (Optional)

SAIDI	4.4	<u>335.7</u>
SAIFI	4.5	<u>1.44</u>
CAIDI	4.6	<u>233.1</u>

Notes:

- 1) All duration indices (SAIDI, CAIDI) are to be reported in units of minutes.
 - 2) Reports are due on the first business day of April of each year
 - 3) Reports cover the calendar year ending in the December before the reports are due.
 - 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, CAIDI, and T_{MED}
-

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 5: OUTAGE CAUSE CATEGORIES

Excluding MED

CAUSE CODE DESCRIPTION	SAIDI VALUE	CAUSE CODE DESCRIPTION	SAIFI VALUE
Wind, not trees 5.1.1	38.97	Lightning 5.2.1	0.19
Lightning 5.1.2	21.74	Wind, not trees 5.2.2	0.18
Motor vehicle 5.1.3	12.60	Cause unknown 5.2.3	0.08
Decay/age of mat/equip 5.1.4	12.15	Tree failure 5.2.4	0.08
Weather, other 5.1.5	9.87	Small animal/bird 5.2.5	0.08
Tree failure 5.1.6	7.61	Mat or equip failure 5.2.6	0.05
Cause unknown 5.1.7	5.78	Decay/age of mat/equi 5.2.7	0.05
Tree growth 5.1.8	5.71	Motor vehicle 5.2.8	0.05
Mat or equip failure 5.1.9	5.71	Conductor sag 5.2.9	0.05
Small animal/bird 5.1.10	5.44	Weather, other 5.2.10	0.04

SECTION 6: WORST PERFORMING CIRCUITS

CIRCUIT IDENTIFIER	SAIDI VALUE	MAJOR OUTAGE CATEGORY
Charter 144 (Holly) 6.1.1	11.04	WIND
Maysville 134 (Moransburg) 6.1.2	10.09	DECAY/AGE OF MATERIAL/EQUIPMENT
Charter 134 (Vanceburg) 6.1.3	7.72	WIND
Charters 124 (Herron Hill) 6.1.4	5.64	MOTOR VEHICLE
Sharkey 124 (801 / Farmers) 6.1.5	4.26	WEATHER
Oak Ridge 144 (Mud Lick) 6.1.6	4.65	LIGHTNING
Peasticks 114 (Forge Mill) 6.1.7	4.4	MOTOR VEHICLE
Hillsboro 104 (Grange City) 6.1.8	2.06	LIGHTNING
Hillsboro 124 (Sherburne) 6.1.9	1.75	LIGHTNING
Peasticks 134 (Sharpsburg) 6.1.10	1.64	CONDUCTOR SAG

CIRCUIT IDENTIFIER	SAIFI VALUE	MAJOR OUTAGE CATEGORY
Charters 134 (Vanceburg) 6.2.1	0.06	SMALL ANIMAL/BIRD
Charters 124 (Herron Hill) 6.2.2	0.03	LARGE ANIMAL
Charters 144 (Holly) 6.2.3	0.02	WIND
Maysville 134 (Moransburg) 6.2.4	0.03	DECAY/AGE OF MATERIAL/EQUIPMENT
Hillsboro 104 (Grange City) 6.2.5	0.03	LIGHTNING
Oak Ridge 144 (Mud Lick) 6.2.6	0.03	LIGHTNING
Peasticks 134 (Sharpsburg) 6.2.7	0.04	CONDUCTOR SAG
Sharkey 134 (Sharkey) 6.2.8	0.04	TREE FAILURE
Sharkey 124 (801 / Farmers) 6.2.9	0.03	WIND
Hillsboro 134 (Poplar Plains) 6.2.10	0.02	MATERIAL OR EQUIPMENT FAILURE

KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

Additional pages may be attached as necessary

SECTION 7: VEGETATION MANAGEMENT PLAN REVIEW

In 2012 the following circuits were sprayed.

Hillsboro (Sherburne, Ringos, Poplar Plains, Grange City)
Maysville (Moransburg, Federal Mogal)
Peasticks (Forge Mill, Moores Ferry, Owingsville/Sharpsburg, Hart Pike)
Charters (Salt Lick, Vanceburg)

In 2012 the following circuits were cleared.

Charters (Herron Hill)
Sharkey (801/Farmers, Sharkey)
Oak Ridge (Burtonville, Petersville, Mudlick)
Pine Hills (Interchange, Pine Hills, Bluestone)

2013 Spray Cycle

Cranston, Muses Mill, Hillsboro, Sherburne, Ringos, Poplar Plain, Grange City

2013 Cut Cycle

Tilton, Hospital, Helena, Underbuild, Bluebank, Herron Hill, Holly, Plumville, Farmers, Sharkey,

SECTION 8: UTILITY COMMENTS

Circuit Descriptions:

Charters 144 (Holly) - A long ckt that travels through rough terrain. Wind took out several trees close to creek banks.

Maysville 134 (Moransburg) - This circuit had a couple large outages due to equipment failing.

Charters 134 (Vanceburg) - Another long ckt. Heavy vegetation in this area makes it acceptable to trees during windy conditions.

Charters 124 (Herron Hill) - A couple large farm equipment accidents was the major cause on this circuit.

Sharkey 124 (801/Farmers) - A combination of storms and winter weather raised the outage numbers of this particular circuit.